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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
08/846,658	05/01/1997	JOHN ROBERT ADAIR	CARP-0057	9631
34132 75	590 07/12/2004		EXAMINER	
COZEN O'CONNOR, P.C. 1900 MARKET STREET PHILADELPHIA, PA 19103-3508			DAVIS, MINH TAM B	
			ART UNIT	PAPER NUMBER
			1642	
			DATE MAIL ED: 07/12/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summer:	08/846,658	ADAIR ET AL.				
Office Action Summary	Examiner	Art Unit				
	MINH-TAM DAVIS	1642				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 Ma	arch 2004.					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 24-31 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 24-31 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the o						
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.	,	•				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

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DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Accordingly, claims 24-31 are being examined.

The following are the remaining rejections.

REJECTION UNDER 35 USC 102 (e)

Rejection under 35 USC 102(e) of claims 24-31 pertaining to anticipation by Queen et al remains for reasons already of record in paper of 08/21/03.

Applicant argues that if the first reference to CDRs in claim 1 of Queen et al means either Kabat or Chothia, then claim 1 is clearly indefinite.

Applicant argues that the first limitation of claim 1 does not recite "Kabat or Chothia CDRs" but merely "CDRs". Applicant argues that the CDRs of Kabat and Chothia is not the same, and that the Chothia CDRs are smaller than the Kabat CDRs and are not co-extensive therewith, e.g. the first CDR of the heavy chain of Kabat includes residues 31-35; for Chothia, the first hypervariable loop includes residues 26-32. Applicant argues that dependent on which definition is used, a product having changes at residues 26-30, may or may not infringe. Applicant argues that similarly, a product having changes at residues 33-35 may or may not infringe. Applicant argues that further, one cannot tell whether the additional limitation of claim 1 - i.e., "adjacent a CDR in the immunoglobulin sequence" -- is satisfied because the answer will change depending upon the limits of the CDRs.

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In addition, Applicant argues that the Office's present argument seems contrary to its previous arguments and contrived to respond to Applicants' arguments that an interretation that CDRS includes both is clearly not supported. In the prior Office Action, the Office asserted that

"one of ordinary skill in the art would have recognized that CDR'S as taught by Queen et al would **include also** CDR'S as defined by Chothia et al, **besides CDR'S as defined by Kabat et al**, regardless of whether the rest of the specification discloses as examples Kabat's CDR's".

(see Office Action dated as mailed March 26, 2003, page 4, emphasis added.)

Applicants argues that Queen et al is not entitled to a priority date earlier than the date in which the recitation requiring that the residue(s) to be changed to donor be "outside the Kabat and Chothia CDRS" first appeared because there was no support for this recitation earlier. Applicant argues that indeed, even in the issued Queen et al patent, changes within the "Chothia" CDR are clearly viewed as residue changes "outside the CDRs" (See, for example, the discussion of Category 4 of the protocol for selecting amino acids to change at col. 14, lines 43 et seq. of Queen et al and the list of residue changes for the Fd138-80, M195, and mik-beta 1 antibodies of Table 1, cols. 43-44, of Queen et al). Applicant argues that residues 27, 29, and 30 are all listed as satisfying Category 4 in Table 1, and that residues 27, 29, and 30 are all within the "Chothia" CDR, i.e., 26-32. Applicant argues that category 4, however, is defined as follows: " [a] 3-dimensional model, typically of the original donor antibody, shows that

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certain amino acids outside of the CDR'S . . . have a good probability of interacting with amino acids in the CDRS by hydrogen bonding." (Queen et al, col. 14, lines 43-47, emphasis added.) Applicant argues that residues 27, 29, and 30 are identified as residues within Category 4 and, thus, are clearly considered to be residues outside the CDRS.

Concerning the recited Office action of March, 26, 2003, page 4, the Examiner intended to mean that one can interpret CDRs as either Kabat or Chothia CDRs. The Examiner apologizes for any confusion incurred.

Applicant's arguments set forth in paper of 03/29/04 have been considered but are not deemed to be persuasive for the following reasons:

Claim 1 is not indefinite based on the interpretation of the '975 specification, and the 102(e) rejection remains. Although the first line of claim 1 does not recite "Kabat or Chothia CDRs", but only "CDRs", one would understand that CDRs recited in claim 1 could mean either Kabat or Chothia CDRs, in view of the incorporation of reference of CDRs defined as the hypervariable regions taught by Chothia et al and CDRs as defined by Kabat et al in the parent application 07/290975, p.8, last paragraph, bridging p.9).

Further, dependent which of the definition of CDRs, Kabat or Chothia, is used in the humanized antibody, it would be routine in the art to determine which amino acids constitute the framework, or which amino acids are outside of or adjacent to the CDRs, since the amino acids of the Kabat or Chothia CDRs are well known in the art. Further,

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the amino acid residues cited by Queen et al are only examples based on Kabat CDRs, and it is routine in the art to adjust the amino acids when based on Chothia CDRs.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH-TAM DAVIS whose telephone number is 571-272-0830. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFREY SIEW can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MINH TAM DAVIS July 02, 2004

SUSAN UNGAR, PH.D

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